

**ABSTRACT**

The inventive subject matter relates to an immunogenic composition and method of immunizing a subject against malarial disease comprising administering to the subject a priming immunization preparation comprising alphavirus replicons expressing a gene encoding a malarial antigen or combination of malarial antigens and subsequently administering to the subject a boosting immunization preparation comprising the malarial antigen(s) or an expression system containing the antigen(s). The inventive composition and methods result in a robust induction of humoral and cellular immune system responses, including CD8<sup>+</sup>, CD4<sup>+</sup> and antibody responses.